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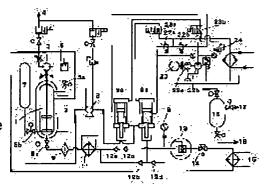
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(54) METHOD FOR CRUSHING SOLID GRAIN AND DEVICE THEREFOR

(57)Abstract:

PROBLEM TO BE SOLVED: To separate a crushed fine grain from the dispersion without the fine grain being reaggregated by dispersing and crushing the highpressure suspension and then reducing the pressure to gasify the fluid and separating the solid grain. SOLUTION: A powder to be atomized is charged into a raw material regulating tank 1, and carbon dioxide is introduced into the tank 1 from a liquefied carbon dioxide storage tank 7. The powder is agitated by an agitator 3 and uniformly suspended, then a valve 5c is opened, and high pressure generating pumps 9a and 9b are operated. The suspension of the granular body is controlled in temp. by a heat exchanger 11, passed through check valves 12c and 12d, pressurized by the



pumps 9a and 9b, sent to a dispersing and crushing means 13 through the check valves 12c and 12d and crushed. The crushed suspension is introduced into a separation tank 16 and reduced in pressure. The suspension discharged from the crushing means 13 is immediately vaporized to separate a fine grain. The gaseous carbon dioxide 17 separated by the separation tank 16 is reused as liquefied carbon dioxide.

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